

2007 MICHIGAN FAMILY FISH CONSUMPTION GUIDE

Important facts to know if you eat Michigan fish



MDCH Division of Environmental Health• 1-800-648-6942
Visit us on the web at www.michigan.gov/mdch-toxic, click on Michigan Fish Advisory

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Project F.I.S.H

Project F.I.S.H. is a Michigan youth sportfishing education program. It is designed to involve children in long-term, mentor-based, community-supported, sportfishing and aquatic resource education.

Call 517-432-2700 for more information, or visit: www.projectfish.org

HEALTH BENEFITS AND RISKS OF EATING FISH

HEALTH BENEFITS OF EATING FISH

he Michigan Department of Community Health (MDCH) recommends that adults and children include fish as a regular and healthy part of their diet. Fish are a great low-fat

source of protein, vitamins and minerals. The oils

(omega-3 fatty acids) found in fish can be important to the

The American Hearth Association recommends eating fish two times a week.

healthy development of babies during pregnancy, breast-fed babies and children. Eating fish on a regular basis can also reduce the risk of heart disease in adults as fish, are low in saturated fat.

Health Risks from Chemical Contaminants found in Some Fish

MDCH advises women of childbearing age and children under 15 years old to be extra careful before eating certain types of fish in Michigan.

The Michigan Department of Community Health advises extra caution about eating some species of fish too often. Many chemicals used in society eventually end up in lakes, rivers, oceans and in some of the fish that we eat. The amounts of

chemicals found in Michigan fish are not known to cause immediate sickness. It may take months or years of regularly eating contaminated fish to build up to amounts that are a health concern. However, some of these chemicals can reach levels that could be harmful to human health if people eat contaminated fish too often. Chemicals can reach high levels in your body and can affect your health or your children's health. Women of childbearing age that eat contaminated fish may have children with delayed or impaired physical, mental, or behavioral development. Some of these chemicals can damage an adult's immune system, cause changes in liver function or cause cancer.

Get the Benefits and Avoid the Risks

Use Michigan's Fish Consumption Guides:

There are many types of fish that make healthy additions to your diet. Use the information found in Michigan's Fish Consumption Guides to get the benefits of eating fish without the risks from chemical contamination.

- Michigan Family Fish Consumption Guide: This is the booklet you are reading. It contains specific fish consumption advice by water body, fish species, fish length, and by the age and gender of the person eating the fish.
- A Family Guide to Eating Fish: This brochure provides the essential fish consumption information for families.
- Avoid Mercury in Fish and Seafood Shopping and Restaurant Guide: This brochure contains a list of types of fish that you can buy that have been tested for mercury contamination by the U.S. Food and Drug Administration (U.S. FDA). The U.S. FDA has issued a nationwide advisory about mercury in pur chased fish for women of childbearing age and young children. The brochure provides meal consumption advice.

8 SIMPLE TIPS FOR EATING SAFE FISH



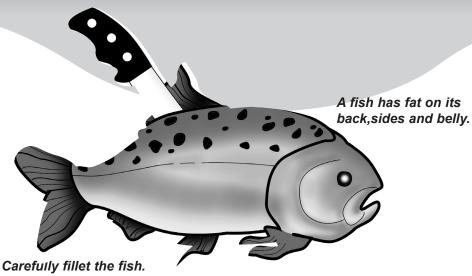
1. Trimming and Cooking

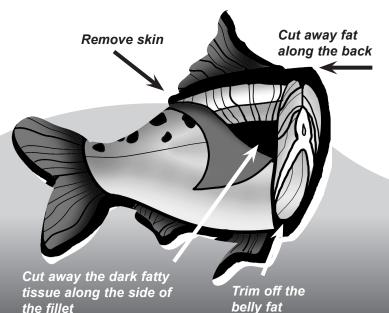
- Trim away fatty areas (see page 4 for directions).
- Remove or puncture the fish's skin before cooking. This allows fat to drain off and helps remove fat from under the skin.
- Cook the fish so the fat drips away by baking, broiling, or grilling on a rack. Throw away the liquid fat and drippings.
- Do not eat the organs, head, skin or dark fatty tissues.
- Do not re-use oils used to deep or pan fry fish.
- 2. Space out your meals of fish.
- 3. Eat many different types of fish from a variety of sources. You will be more likely to select healthy fish choices.
- 4. Limit your meals of the kinds of fish that eat other fish. They are likely to contain more mercury and other chemical contaminants.
- 5. Eat smaller, younger fish. Fish just over the legal size limit or panfish tend to be lower in chemical contamination. Bigger and older fish have had more time to collect more chemicals.
- 6. Most chemicals (except mercury) collect in fat. Avoid fatty fish like carp and catfish from contaminated waters. Instead, try eating farm-raised catfish from your grocery store.
- 7. Don't eat shark, tilefish, king mackerel or swordfish. The U.S. FDA has found these species contain high amounts of mercury.
- 8. Mercury cannot be trimmed or cooked away from fish. Choose species that are low in mercury.



COOKING AND CLEANING FISH

Important reminders.





Mercury Fish

Consumption Advisories

Statewide Mercury Fish Consumption Advisory For All Inland Lakes, Reservoirs, and Impoundments

Follow the Statewide Mercury Advisory for lakes, reservoirs, and impoundments that are not listed in the fish consumption advisory tables of this booklet. The Statewide Mercury Advisory does not apply to the Great Lakes or rivers in Michigan.

- No one should eat more than one meal a week of rock bass, yellow perch, or crappie over 9 inches in length from inland lakes, reservoirs, or impoundments in Michigan.
- No one should eat more than one meal a week of largemouth bass, smallmouth bass, walleye, northern pike or muskellunge of any size from inland lakes, reservoirs, or impoundments in Michigan.
- Women of childbearing age and children under 15 years old should eat no more than one meal per month of rock bass, yellow perch, or crappie over 9 inches in length from inland lakes, reservoirs, or impoundments in Michigan.
- Women of childbearing age and children under 15 years of age should eat no more than one meal per month of largemouth bass, smallmouth bass, walleye, northern pike or muskellunge of any size from inland lakes, reservoirs, or impoundments in Michigan.

Nationwide Mercury Fish Consumption Advisory for Store Purchased Fish

The U.S. FDA has issued a nation-wide advisory about mercury in purchased fish to women of childbearing age and young children. MDCH has created the brochure called *Avoid Mercury in Fish and Seafood Shopping and Restaurant Guide*, which provides meal consumption advice based on U.S. FDA's testing of store purchased fish for mercury.



5 STEPS TO USING THE MICHIGAN FAMILY FISH CONSUMPTION GUIDE

The *Michigan Family Fish Consumption Guide* provides fish consumption advice by water body, fish species, and fish length. The

fish consumption advice is provided in the tables on pages 8-57. The water bodies are grouped into four sections based on the Great Lakes Watersheds. Follow the Statewide Mercury Fish Consumption Adviosry found on page 5 for inland lakes, reservoirs, and impoundments not listed in the Guide.

Step One:

Decide which Great Lake Watershed your water body is located in. If you are not sure which Watershed your water body is locatedin, check the two closest Great Lakes Watersheds.

•	Erie	page 8
•	Huron	page 20
•	Michigan	page 30
•	Superior	page 52

Why doesn't the fish consumption guide list every water body?

Water bodies may not be listed because:

- 1. Fish from the water body have never been tested for chemical contaminants. Michigan has more than 11,000 lakes and 36,000 miles of rivers and streams in addition to the Great Lakes. Waters are more likely to be selected for fish contaminant testing if the water body has known contaminant problems, high recreational use,or may provide useful environmental information.
- Fish from the water body have been tested but are covered by Statewide Mercury Fish Consumption Advisory for Inland Lakes, Reservoirs, and Impoundments.

Step Two:

The list of water bodies starts with the name of the Great Lake, followed by the bays on the Great Lake that have additional advisories and then by an alphabetical listing of lakes, rivers, reservoirs, or impoundments. Locate the name of your water body in the first column of the table.

Step Three:

Locate the fish species that you are fishing for in the second column. Find the length of the fish along the top right side of the table.

Step Four:

Choose the category that matches the person(s) who will eat the fish.

- General Population: Adult men. Boys 15 years or older.
 Women beyond childbearing age.
- Women & Children: Women ages 15 and older of childbearing age who are pregnant or may have children in the future.
 Children under the age of 15 years old.

Step Five:

Follow the length column in the category that matches the person eating the fish down to the fish species you caught. The symbol on the table represents the consumption advice according to the following key:

- ▲ Unlimited consumption.
- One meal per week.
- One meal per month.
- Six meals per **y**ear.
- Do not eat these fish.

For More Information

For more information on the Fish Consumption Advisory, visit our website at www.michigan.gov/mdch-toxic or call 1-800-648-6942.



Unlimited consumption		eal per week.			Ger	era	l Po	pula	atio	n				Wo	mer	1 & (Chil	drer	n	
One meal per month.		als per year.			Le	engt	h (iı	nch	es)					Le	engt	th (i	nch	es)		
Water body	Species Do not	eat these fish. Contaminant(s)	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
	All other locations refer to		-			+	-	-	- 14			-		_	-		_	N	N	
	Carp, Catfish	PCBs, Dioxins									•	ΙΦ					•			
Lake Erie #	Chinook Salmon	PCBs	╁	+	Ă	T A	Ť	×	Ť	Ă	Ă	┿	┿	Ť	Ť	Ť	·	Ť	Ť	
	Coho Salmon	PCBs	┢									╁	+							
	Freshwater Drum	PCBs										╅		-	-		-	+		
	l	+	╀	1								╀	╀	Ť				Ť	H	
	Lake Trout	PCBs	╀									╫	+	-				╀	╀	
	Rainbow Trout (Incluing Steelhead)	PCBs												•		•	•	•	•	
	Smallmouth Bass	PCBs																		
	Walleye	PCBs																		
	White Bass	PCBs										•	•							
	Whitefish	PCBs, Dioxins	▼	•		•	▼	•	•	•	•	*	•	•	•	•	•	•	•	•
	White Perch	PCBs										•	•	•						П
	Yellow Perch	PCBs										▼		▼	▼	▼				П
Barton Pond* (Huron R.)	Carp	PCBs	A	▼	•	•	•	•	•	•	▼	▼								
Belleville Lake* (Huron R.)	Carp	PCBs										•	•							
- Circle Laite (Haloli It.)	Gizzard Shad	PCBs										•	•	•						П
	Walleye	PCBs	\top	\top								Τ	\top							
	Suckers	PCBs										•	•							П
Black Creek (Lenawee Co.)	Carp	PCBs										1								

An empty box in the chart means one of two things:

- On the small end of the size scale, fish in this size range are not of legal size.
 On the large end of the size scale, fish of this type generally do not
- grow to this size.

[#] Also applies to tributaries into which migratory species enter.

^{*} For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		meal per week.			Gen	eral	Po	pula	itioi	n				Woı	men	& (Chil	drer	h	
One meal per month.		neals per year.			Le	engt	h (ir	nche	es)					Le	engt	h (i	nch	es)		
Water body	Species Do n	ot eat these fish. Contaminant(s)	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Erie Watershed	All other locations refer	to general advice on page 5.																		
Cass Lake* (Oakland Co.)	Smallmouth Bass	Mercury, PCBs					▼	▼	▼	▼						•	•	•		
	Walleye	Mercury, PCBs	▮				▼	▼	▼	▼		\top								•
Clear Spring Lake* (Macomb Co.	Largemouth Bass	Mercury, PCBs	Г					V	V	V	П	Т				V				Г
Clinton River	Carp	PCBs																		
(Downstream Yates Dam)	Rock Bass	PCBs																		
	Suckers	PCBs																		
Detroit River	Carp	PCBs, Dioxin	•	•	•	•	•	•	•	•	•	•	•	•	•	♦	♦	♦	•	4
	Freshwater Drum	Mercury, PCBs						▼	•	•		•								
	Northern Pike	PCBs																		
	Suckers	PCBs										▼	▼	▼	▼	•				Τ
	Walleye	PCBs	Г									Т								
	Yellow Perch	PCBs												•	▼	•			Г	
Ford Lake* (Washtenaw Co.)	Black Crappie	PCBs										▼	▼	▼	▼	▼	▼			
	Carp	PCBs										•	•	•	•		•			
	Channel Catfish	PCBs													▼	•				
	Walleye	PCBs	Г									Т				•	▼	lacksquare		1
Hudson Lake* (Lenawee Co.)	Carp	Mercury								▼	▼									
	Largemouth Bass	Mercury						▼	▼	▼										Γ
Kent Lake* (Oakland Co.)	Black Crappie	Mercury, PCBs			▼	▼	▼	▼			П								\vdash	T
	Carp	PCBs										•	•	•						
	Largemouth and Smallmouth Bass	PCBs					A	A	A	A						•	•	•	•	
	Walleye	PCBs										1				•	•			1

^{*} For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		eal per week.			Gen	era	l Po	pula	atio	n				Wo	mer	1 & (Chil	drer		
One meal per month.		als per year.			Le	engt	h (iı	nch	es)					L	eng	th (i	nch	es)		
Water body	Species	eat these fish. Contaminant(s)	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	L a	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
	All other locations refer to		-			Ť			-	-		-						10	- (4	
		1	I									П								
Lake Orion* (Oakland Co.)	Carp	PCBs, Chlordane															V	 		
	Largemouth Bass	Mercury	┝	-	-	\vdash	▮▼	▮▼	 	 		₩	+	+	+					
	Northern Pike	Mercury, PCBs							V	V	V	Щ.						1		
Lake St. Clair	Bluegill	PCBs						╙	lacksquare	╙			<u>4 M</u>					$oxed{oxed}$	L	Ш
	Brown Bullhead	Mercury																$oxed{oxed}$		
	Carp	PCBs																		
	Carpsucker	Mercury																		
	Channel Catfish	PCBs							▼	•	▼	П			•	•		•	•	•
	Largemouth and Smallmouth Bass	Mercury, PCBs					•	•	▼	▼						•	•	•	•	
	Northern Pike	Mercury									▼	П								
	Muskellunge	Mercury, PCBs									•	П								•
	Sturgeon	PCBs										П								
	Walleye	Mercury, PCBs							▼	▼	▼	П			•	▼	▼			
	White Bass	Mercury, PCBs												•						
	White Perch	Mercury													•					
Loon Lake* (Oakland Co.)	Carp	PCBs										1	4 ▼		V	▼	•		V	lacksquare
	Largemouth and Smallmouth Bass	Mercury						▼	▼	▼							•		•	
Maceday Lake* (Oakland Co.)	Northern Pike	Mercury, PCBs																		
Norvell Lake (Jackson Co.)	Largemouth Bass	Mercury																		
Osmun Lake* (Oakland Co.)	Carp	PCBs																		
	Largemouth Bass	PCBs, Mercury																		
Ottawa River	All species	PCBs	*	♦	♦	•	♦	♦	•	•	♦	1	\	♦	♦	♦	♦	♦	♦	♦

^{*} For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption	. V One me	eal per week.			Gen	Length (inches) Length (inches) 21-01 41-21														
One meal per month.	Six meals per year Do not eat these Species Contacts (Co.) Carp PCE (Co.) Carp PC	• •			Le	engt	h (iı	nche	es)					Le	engt	h (i	nch	es)		
Watan bada			Year See fish Se																	
Water body	<u> </u>		-					7	8	N	'''	_	w	7	-	7	-	7	8	(1)
								1 A		L A		T .								
Pine River (St. Clair Co.)	Carp	PCBs										▲					V			
Pontiac Lake* (Oakland Co.)	Channel Catfish	Mercury, PCBs							V	V					V	V	V			
River Raisin (Upstream Monroe Dam)	Carp	Six meals per year. Do not eat these fish. Contaminant(s) 2																		
River Raisin,	Black Buffalo	PCBs					♦	♦	♦	♦	♦					♦	♦	♦	♦	♦
(Downstream Monroe Dam) and Plum Creek	Carp	PCBs	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
and Plum Creek	·	PCBs	T			•	•	•	•	♦	•	T			♦	♦	♦	•	•	•
	Freshwater Drum	PCBs																		
		<u> </u>	\vdash		\vdash	\vdash			▼			Ť								\vdash
		+				•	•	•							•	•	•	┢	F	H
River Raisin,		 					A	<u> </u>												
South Branch	· ·		╫	 	 _	 	 _	 				╫	 							
											\vdash	┪								\vdash
Rouge River (Main or Upper Branch upstream M-153/Ford Road)		 	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>	A									
Rouge River (Phoenix Lake)	Bluegill	PCBs										▼	V	▼	▼				П	П
	Carp	PCBs															•		•	
	Northern Pike	PCBs																		
	Suckers	PCBs														•	▼	▼		
Rouge River (Newburgh Lake)	Carp	PCBs										•				•				
	Channel Catfish	PCBs			T							T								
	Largemouth Bass	PCBs																		
		+	\top	T	Length (inches) Length (inches) 01 2 1 0 1 1 2 1 1 1 1 1 1 1 2 2 8 1 2 2 2 2 2 2															
		+										┪								

Unlimited consumption		neal per week.			Gen	era	l Po	pula	atio	1				Wo	men	& (Chil	drer	•	
One meal per month.		eals per year.			Le	engt	h (iı	nche	es)					Le	engt	:h (i	nch	es)		
		t eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	+
Water body	Species	Contaminant(s)	9	κò	10	12	4	18	52	26	ñ	9	ώ	19	12	4	18	52	26	30
Lake Erie Watershed	All other locations refer to	o general advice on page 5.																		
Rouge River (Middle Branch downstream of Newburgh	Carp	PCBs									•									♦
Lake and Main Branch downstream M-153/Ford Road)	Catfish	PCBs	*	♦	•	•	•	•	•	•	•	•	•	•	♦	♦	*	•	*	♦
,	Largemouth and Smallmouth Bass	PCBs					•	•	•	•						•	•	•	*	
	Northern Pike	PCBs							•	•	•							•	•	•
	Suckers	PCBs										•								
	All other species	PCBs	▼				▼	▼	▼		lacksquare	*	•	•	•	♦	♦	•	•	•
Rouge River Lower Branch and Main	Carp	PCBs								•	♦								•	♦
Branch (Downstream Ford Dam)	Suckers	PCBs					♦	♦	•	♦	♦					♦	♦	♦	•	♦
Terry Lake* (Oakland Co.)	Carp	PCBs																		
St. Clair River	Carp	Mercury, PCBs									•								♦	♦
	Freshwater Drum	Mercury, PCBs																		
	Gizzard Shad	Mercury, PCBs												•	♦	•	•			
	Walleye	PCBs																		
Stony Creek Impoundment* (Macomb Co.)	Northern Pike	Mercury, PCBs							▼	▼	▼	Т						•		•
Unnamed Lake*	Bullhead	PCBs									П	▼	V	•	•	•				
(Washtenaw Co., T3S, R7E, S26)	Largemouth Bass	Mercury, PCBs					▼	▼	▼											
Walled Lake* (Oakland Co.)	Carp	PCBs										T		•						
	Northern Pike	Mercury, PCBs	Т							▼	lacksquare									
Whitmore Lake* (Livingston Co.)	Carp	PCBs	A				A	A	A	A	A	A		A		A	A	•	•	▼
Woodland Lake*	Carp	PCBs																	▼	▼
(Livingston Co.)	Largemouth Bass	Mercury										T								

Unlimited consump		ne meal per week.			Gen	eral	Pop	oula	tion	1				Wo	mei	1 & (Chil	drer	1	
One meal per mont		ix meals per year.			Le	ngtl	ı (in	che	es)					L	eng	th (i	nch	es)		
Water body	Species	o not eat these fish. Contaminant(s)	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		8-10	10-12	12-14	14-18	18-22	22-26	26-30	
Lake Erie Watershe	d All other locations re	efer to general advice on page 5.																		
All Inland lakes,	Crappie	Mercury		▼	▼	•	▼	•				1				•	•			Ī
reservoirs, and mpoundments mercury advisory)	Largemouth ar Smallmouth Ba	N A =					•	T	•	▼						•	•	•	•	Ţ
	Muskellunge	Mercury									V									
	Northern Pike	Mercury										T								,
	Rock Bass	Mercury		~	lacksquare	•						4				•				7
	Walleye	Mercury					•	•	•	T	V					•	•			,
	Yellow Perch	Mercury																	\Box	†

Unlimited consumption. One meal per week. **General Population** Women & Children One meal per month. Six meals per year. Length (inches) Length (inches) Do not eat these fish. 10-12 18-22 22-26 26-30 26-30 30 + 10-12 12-14 18-22 22-26 **6**-8 8-9 30 **Water body Species** Contaminant(s) **Lake Huron Watershed** All other locations refer to general advice on page 5. Lake Huron # **PCBs** Brown Trout Burbot **PCBs** Chinook Salmon **PCBs** Coho Salmon **PCBs** Lake Trout PCBs, Dioxins Rainbow Trout **PCBs** (Including Steelhead) Whitefish PCBs, Dioxins Saginaw Bay # (Also follow • Carp PCBs, Dioxins Lake Huron advisories above) Channel Catfish PCBs. Dioxins Northern Pike **PCBs** Suckers **PCBs** Mercury, PCBs Walleye White Bass PCBs, Dioxins White Perch **PCBs PCBs** Yellow Perch Thunder Bay # (Also follow PCBs, Dioxins Carp Lake Huron advisories above) Walleye **PCBs** Au Sable River (At Oscoda) **PCBs** Carp Mercury, PCBs Walleye Au Sable River (Middle Branch) Walleye Mercury **Bad River PCBs** Carp Channel Catfish **PCBs PCBs** Northern Pike Black River (Sanilac Co.) Carp **PCBs**

[#] Also applies to tributaries into which migratory species enter.

For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption. One meal per week. **General Population** Women & Children One meal per month. Six meals per year. Length (inches) Length (inches) Do not eat these fish. 10-12 18-22 22-26 26-30 10-12 22-26 26-30 9-8 8-9 30 30 **Water body Species** Contaminant(s) **Lake Huron Watershed** All other locations refer to general advice on page 5. Burt Lake (Cheboygan Co.) Walleye Mercury **Cass River** Dioxins Carp (Downstream Bridgeport) **Channel Catfish** PCBs, Mercury Dioxins Northern Pike **PCBs** Cass River (Upstream Bridgeport) **PCBs** Carp Northern Pike Mercury **PCBs** Carp **Cass River** (Upstream of Caro Dam) Sucker Mercury **Cheboyganing Creek** Carp **PCBs** Northern Pike **PCBs** Chippewa River (Midland Co.) **PCBs** Suckers Ess Lake* (Montmorency Co.) Northern Pike Mercury **Gaylanta Lake*** Northern Pike Mercury (Montmorency Co.) Five Lakes* (Clair Co.) Largemouth Bass Mercury Flint River (Downstream Flint) Carp **PCBs** Smallmouth Bass **PCBs** Frenchman Lake* Northern Pike Mercury (Chippewa Co.) **Holloway Reservoir*** Channel Catfish **PCBs** (Genessee Co.) Lake Emma* (Presque Isle Co.) Northern Pike Mercury Lake Esau* (Presque Isle Co.) Smallmouth Bass Mercury

PCBs

Lobdell Lake* (Genesee Co.)

Carp

[#] Also applies to tributaries into which migratory species enter.

For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		meal per week.			Gen	era	l Po	pula	ation	1				Woı	men	& (Chil	drer	1	
One meal per month.		neals per year.			Le	engt	h (ir	nche	es)					Le	engt	h (i	nch	es)		
Water body	Species Do n	oot eat these fish. Contaminant(s)	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Huron Watershee		efer to general advice on page 5.	h									•		-	1		Ť			
Long Lake* (Presque Isle Co.)	Smallmouth Bass	Mercury						▼		lacksquare						▼	•	•		
Kawkawlin River	Carp	PCBs	♦	•	♦	•	♦	♦	•	♦	♦	♦	♦	♦	♦	♦	♦	♦	•	♦
	Northern Pike	PCBs																		
Kearsley Reservoir*	Carp	PCBs										•					\blacksquare			
(Genesee County)	Largemouth Bass	Mercury																		
Peach Lake* (Ogemaw Co.)	Northern Pike	Mercury																		
Pine River* (Alma Impoundment)	Carp	PCBs									lack	▼		•	V	▼	▼	•		
Pine River*(Downstream Alma dam)	All Species	PBBs, DDT	♦	•	•	•	♦	♦	♦	♦	♦	•	•	♦	♦	♦	♦	♦	♦	•
Lake Ponemah* (Genesee Co.)	Carp	PCBs										▼								
	Largemouth Bass	Mercury						▼	•	lacksquare										
Rifle River	Rock Bass	PCBs										▼	lacksquare	V	•	•				
	Suckers	PCBs											•	▼	▼	▼	▼	▼	▼	
Saginaw River (Entire Length)	Carp, Catfish	PCBs, Dioxins	♦	•	•	•	♦	*	♦	♦	♦	♦	♦	•	♦	♦	•	♦	♦	•
	White Bass	PCBs	▼	▼	▼	▼	▼	▼												
	All other species	PCBs, Dioxins	▼	T	▼	▼	▼	▼	T	T	lacksquare	•		•			•			•
Sanford Lake* (Midland Co.)	Black Crappie																			
	Channel Catfish	Mercury, PCBs								lacksquare	V	Τ			▼	•	▼	▼		
	Rock Bass	-									\Box									
St. Mary's River	Carp	PCBs																		
	Northern Pike	Mercury	\top	T					T	▼	V	\top								•
	Walleye	Mercury, PCBs	T	1						▼	▼	1				•	▼		•	
Sebawaing River	Carp	PCBs										▼	•	▼	•	•				
	Northern Pike	PCBs	\top	T								\top						•	•	7

[#] Also applies to tributaries into which migratory species enter.* For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		neal per week.			Gen	era	l Po	pula	ation	n				Wo	mer	1 & (Chil	drer	1	
One meal per month.		eals per year.			Le	engt	h (iı	nche	es)					L	engt	th (i	nch	es)		
Water body	Species Do not	t eat these fish. Contaminant(s)	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Huron Watershe	d All other locations refe	r to general advice on page 5.																		
Shiawassee River	Carp	PCBs										7		▼	•	•	lacksquare			Ī
(Downstream of Owosso)	Rock Bass	PCBs										•								Γ
	Smallmouth Bass	PCBs																		Γ
Shiawassee River	Carp	PCBs	▼						•	•	♦							•	•	Γ
(Byron to Owosso)	Northern Pike	PCBs																		Ι
01 '	Smallmouth Bass	PCBs	Π																	Γ
Shiawassee River S. Br. (M-59 to Byron)	All species	PCBs	*	•	•	•	•	•	•	•	*	•	•	•	•	•	•	•	•	Ī
Stevenson Lake*	Bullhead	Mercury					V	V	V	V	V	V		V						T
Tawas River	Northern Pike	PCBs	Γ						A	A	A	T						▼	▼	,
Thompson Lake*	Black Crappie	PCBs				▼	V	V							•		•			Ī
(Livingston Co.)	Carp	PCBs								•	♦	T						•	•	T
	Northern Pike	Mercury, PCBs	Т						▼	▼	▼									Ī
Thread Creek and Thread Creek Impoundment (Genesee Co.)	Carp	PCBs	A	•	•	•	•	•	•	•	•	•								
Tittabawassee River	Carp, Catfish	PCBs, Dioxins	♦	♦	•	♦	♦	♦	•	♦	•	•	•	•	♦	♦	•	•	♦	ŀ
(Downstream of Midland)	Smallmouth Bass	PCBs, Dioxins														•	♦	•	•	
	White Bass	PCBs, Dioxins	♦	•	•	♦	♦	♦				•	•	♦	♦	♦	♦			
	Walleye	PCBs																		
	All other species	PCBs, Dioxins																		
Wixom Lake*	Northern Pike	Mercury																		[

[#] Also applies to tributaries into which migratory species enter.

* For species not listed, see general inland lake mercury advisory on page 5.

▲ Unlimited consumption		eal per week.		(Gen	eral	Po	pula	atior)				Wo	men	& (Chile	dren	1	
One meal per month.		als per year.			Le	ngtl	h (ir	nch	es)					L	engt	h (iı	nche	es)		
		eat these fish.	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	-18	-22	-26	-30	+
Water body	Species	Contaminant(s)	9	κò	10	12	4	18	52	26	ñ	9	ώ	9	12	4	18	22	26	30
Lake Huron Watershed	All other locations refer	to general advice on page 5.																		
Tobico Wetland* (Bay Co.)	Carp	PCBs										7	7	7		▼	•	▼		V
	Northern Pike	PCBs										Т								V
Van Etten Lake* (losco Co.)	Carp	PCBs																		
	Channel Catfish	PCBs										Т								
	Walleye	Mercury, PCBs					•													
*All Inland lakes,	Crappie	Mercury		▼	▼	▼	▼	▼												
reservoirs, and impoundments (mercury advisory)	Largemouth and Smallmouth Bass	Mercury					•	▼	•	•						•	•	•	•	
(· · · ·) · · · · · ·),	Muskellunge	Mercury									V	Т								•
	Northern Pike	Mercury							•	▼	lacksquare	Т								•
	Rock Bass	Mercury			▼	▼	▼					4								
	Walleye	Mercury					▼			▼	lacksquare	T					•			
	Yellow Perch	Mercury			•		▼					4								

[#] Also applies to tributaries into which migratory species enter.* For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		al per week.			Gen	era	l Po	pula	atio	n				Wo	mer	1 &	Chil	dre	n	
One meal per month.		als per year.			Le	engt	h (iı	nche	es)					L	eng	th (i	nch	es)		
		eat these fish.	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Water body	Species	Contaminant(s)		∞	7	7	+	7	%	ñ	ω		ι κό	1 5	12	14	18	52	76	ñ
Lake Michigan Waters	hed All other locations re	efer to general advice on pag	e 5.									-	-							
Lake Michigan North	Brown Trout	PCBs, Dioxin										Т		•	•	•	•	•	•	•
of Frankfort #	Burbot	PCBs																		
	Carp	PCBs								•	♦								•	•
	Catfish	PCBs	♦	•	•	•	•	•	•	•	♦	•	•	•	•	•	•	•	•	•
	Chinook Salmon	PCBs																		
	Coho Salmon	PCBs																		
	Lake Trout	PCBs, Chlordane								•	♦								•	•
	Rainbow Trout (Including Steelhead)	PCBs												•	•	•	•	•	•	•
	Smelt	PCBs										•								
	Sturgeon	PCBs									♦									•
	Walleye	Mercury, PCBs																		
	Whitefish	PCBs, Dioxin	▼	▼			•	♦	•	•	♦	•	•	•	•	♦	•	•	•	•
	Yellow Perch	PCBs										▼								
Lake Michigan South	Brown Trout	PCBs							•	•	♦							♦	•	•
of Frankfort #	Carp, Catfish	PCBs	♦	•	•	•	♦	♦	•	•	•	♦								
	Chinook Salmon	PCBs																		
	Coho Salmon	PCBs																		
	Lake Trout	PCBs, Chlordane							•	•	♦							•	•	•
	Rainbow Trout (Including Steelhead)	PCBs												▼	▼	•	▼	•	•	•
	Smelt	PCBs										V								
	Sturgeon	PCBs, Chlordane DDT, Dioxin									•									•
	Walleye	Mercury, PCBs																		
	Whitefish	PCBs, Chlordane Dioxin							•	•	•	•	•	•	•	•	•	*	•	•
	Yellow Perch	PCBs													•	•				

Unlimited consumpt		neal per week.			Gen	eral	l Po	pula	ation	n				Woı	mer	8 (Chil	drei	h	
One meal per mont		eals per year.			Le	engt	h (ir	nche	es)					Le	engt	th (i	nch	es)		
		t eat these fish.	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	
Water body	Species	Contaminant(s)	_	8	7	7	7	7	5	ŭ	က		κό	100	12	14	1 8 1	%	78	
Lake Michigan Wate	ershed All other locations	refer to general advice on page	ge 5.		,							—	<u> </u>							Ļ
Green Bay #	Brown Trout	PCBs				▼		♦	♦	♦	•			•	•		•	•	•	
S. of Cedar River. Applies to	Burbot	PCBs																	▼	1
Aichigan waters including Menominee and Cedar rivers	Carp	PCBs	▼		▼	▼	▼	▼	▼	•	♦								•	1
elow first dam. See also .ake Michigan-	Channel Catfish	PCBs				▼	▼	▼	▼	▼	lacksquare									
lorth of Frankfort)	Chinook Salmon	PCBs									lack					•	•			_
	Lake Trout	PCBs	T						▼	▼	lacksquare					•	•			-
	Northern Pike	PCBs																		
	Rainbow Trout (Including Steelhead)	PCBs			A									•	•	•	•	•	•	-
	Smallmouth Bass	Mercury, PCBs						▼	▼	▼										
	Splake	PCBs			▼	▼	▼	•	•	•	♦						•	•	•	
	Sturgeon	PCBs									♦									
	Suckers	PCBs							▼	▼	lacksquare	•								
	Walleye	Mercury, PCBs						▼	▼	▼	lacksquare								•	
	White Bass	PCBs	•	♦	•	•	•	•				•	♦	•	•	♦	•			
	Whitefish	PCBs, Dioxins	▼		▼	▼	•	•	•	•	♦	•	♦	•	•	•	•	•	•	
	White Perch	PCBs	•	•	•	•						•	•	•	•					
	Yellow Perch	PCBs																		
ittle Bay de Noc #	Burbot	PCBs																		•
ee also Lake Michigan orth of Frankfort)	Carp	PCBs	V				▼			•	♦								♦	
	Northern Pike	PCBs																		_
	Smallmouth Bass	Mercury, PCBs														V				_
	Suckers	PCBs																		

[#] Also applies to tributaries into which migratory species enter.

* For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption	<u></u>	neal per week.		•	Gen	era	l Po	pula	atio	1				Wo	mer	1 &	Chil	dre	n	
One meal per month.		eals per year.			Le	engt	h (iı	nche	es)					L	engt	th (i	nch	es)		
Water body	Species	ot eat these fish. Contaminant(s)	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Michigan Waters			e 5.																	
			Т									т	Т		Т			_	Т	
Antione Lake* (Dickinson Co.)	Northern Pike	Mercury	┖	<u> </u>		<u> </u>	╙	<u> </u>		V		╄						V		
	Walleye	Mercury	L						V	V		┸				V	V			
Austin Lake* (Kalamazoo Co.)	Largemouth Bass	Mercury						V	V	V	Ш					V				
Barton Lake* (Kalamazoo Co.)	Carp	PCBs															lacksquare		V	
Battle Creek River	Carp	PCBs										V								
	Smallmouth Bass	PCBs															lacksquare		V	
Bear Lake* (Muskegon Co.)	Carp	PCBs									•	•							•	♦
	Largemouth Bass	Mercury, PCBs																		
	Northern Pike	PCBs																		
	Walleye	Mercury, PCBs										Т								
Black Creek (Muskegon Co.)	Carp, Suckers	PCBs																		
Black River (S. Br. upstream Bangor)	Carp	PCBs	A	▼	•	▼	•	•	▼	▼	▼	▼								
Black River (Downstream S. Br.	Carp	PCBs	•	•	•	•	♦	•	•	♦	♦	*	•	•	♦	•	•	•	•	•
and S. Br. downstream Bangor)	Northern Pike	PCBs										Τ								
	Suckers	PCBs										▼		•	▼	▼	▼	•	•	
Boot Lake* (Schoolcraft Co.)	Walleye	Mercury	Т						V	▼	▼	\top				▼	▼			
Boyne River	Brown Trout	PCBs	Т								lack	Τ	~	•					•	
Camp Lake* (Kent Co.)	Largemouth Bass	Mercury	Т					▼	V	▼	П	\top				▼			•	П
Craig Lake* (Baraga Co.)	Northern Pike	Mercury								▼	♦	\top								•
Crystal Lake* (Benzie Co.)	Brown Trout	PCBs	T									Τ		T		▼			•	
	Lake Trout	PCBs	Π									Τ		▼	_	•	▼			
	Suckers	PCBs										▼		▼	▼	▼	▼	•		
Dowagiac River	Carp	PCBs										▼		•		▼	•	•		
Elk Lake* (Antrim Co.)	Lake Trout	Mercury, PCBs					A	A	A	•	▼			•	•	•	•	•	•	•

[#] Also applies to tributaries into which migratory species enter.* For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption. One meal per week. **General Population** Women & Children One meal per month. Six meals per year. Length (inches) Length (inches) Do not eat these fish. 10-12 18-22 22-26 26-30 30 + 10-12 22-26 26-30 9-8 8-9 30 **Water body Species** Contaminant(s) Lake Michigan Watershed All other locations refer to general advice on page 5. **Fawn River** Carp **PCBs** Smallmouth Bass Mercury Flat River (Upstream Greenville) Carp **PCBs** Rock Bass **PCBs** Flat River (Downstream Greenville) Carp **PCBs** Rock Bass **PCBs PCBs** Suckers Fenner Lake* (Allegan Co.) **PCBs** Carp Fremont Lake* (Newaygo Co.) **PCBs** Carp **Galien River** Carp PCBs, Chlordane Mercury, PCBs, Glen Lake* (Leelanau Co.) Lake Trout Chlordane Goose Lake* (Marguette Co.) Northern Pike **PCBs** Walleye **PCBs PCBs** Yellow Perch **Grand River** Carp **PCBs** (Upstream Webber Dam) Channel Catfish **PCBs PCBs** Northern Pike **PCBs** Suckers Walleye **PCBs Grand River** Carp **PCBs** (Downstream Webber Dam) Channel Catfish **PCBs** Northern Pike **PCBs PCBs** Suckers **PCBs** Walleye

[#] Also applies to tributaries into which migratory species enter.

For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption		eal per week.			Gen	era	l Po	pula	atio	n				Wo	mer	ı & (Chil	drei	1	
One meal per month.		als per year.			Le	engt	h (iı	nche	es)					Le	engt	h (i	nch	es)		
		eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	+
Water body	Species	Contaminant(s)		φ.	9	12	4	18	52	26	ñ	9	ώ	19	12	4	18	52	26	30
Lake Michigan Waters	hed All other locations r	efer to general advice on pag	e 5.				·													
Green Lake*(Grand Traverse Co.)	Lake Trout	Mercury, PCBs					V	V	▼	▼	lacksquare					•	•	•	•	
Greenwood Reservoir* (Escanaba River, Marquette Co.)	Northern Pike	Mercury							▼	▼	•							•	•	♦
Gull Lake* (Kalamazoo Co.)	Northern Pike	Mercury, PCBs																		
Hess Lake* (Newago Co.)	Carp	PCBs																		
Higgins Lake* (Roscommon Co.)	Lake Trout	Mercury, PCBs, Chlordane									•				•			•	•	•
Houghton Lake*(Roscommon Co.)	Carp	PCBs																		
Kalamazoo River (Ceresco Impoundment, Calhoun Co.)	Carp	PCBs										•	•	•	•	•	•	•	•	•
Kalamazoo River (From Battle	Carp	PCBs																		
Creek to Morrow Pond Dam)	Channel Catfish	PCBs										•	•			•		•		•
	Smallmouth Bass	PCBs														•	▼	▼	•	
Kalamazoo River (From Morrow	Carp	PCBs, Dioxin	*	•	•	•	•	•	•	•	•	*	•	•	•	•	•	*	•	♦
Dam to Allegan Dam)	Catfish, Suckers	PCBs	♦	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	♦
	Largemouth and Smallmouth Bass	PCBs					•	•	•	•						•	•	•	•	
	All other species	PCBs	▼		▼							•	•	•	•	•	•	•	•	•
Kalamazoo River	Carp, Catfish	PCBs	♦	•	♦	•	♦	•	•	♦	♦	*	•	•	♦	♦	•	•	•	•
(Downstream of Allegan Dam)	Largemouth and Smallmouth Bass	PCBs						•	▼	•						♦	•	•	•	
	Northern Pike	PCBs							•	•	♦							•	♦	♦
	All other species	PCBs										•								
Klinger Lake (St. Joseph Co.)	Largemouth Bass	Mercury																		
Lake Charlevoix*	Brown Trout	PCBs								V	V									
(Charlevoix Co.)	Lake Trout	PCBs																		

Unlimited consumption.		eal per week.			Gen	eral	Po	pula	tion					Wo	men	& (Chil	drer	•	
One meal per month.		als per year.			Le	engt	h (ir	nche	es)					Le	engt	h (iı	nch	es)		
		eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Water body	Species	Contaminant(s)		®	7	7	+	7	5	2	က		ι ο	15	12	4	18		76	ñ
Lake Michigan Watersl	ned All other locations r	efer to general advice on pag	e 5.																	
Lake Macatawa* (Ottawa Co.)	Carp	PCBs						•		♦	♦		' V	•	•			•	•	♦
	Walleye	Mercury, PCBs																		
Lake Mitchell*(Wexford Co.)	Largemouth Bass	Mercury																		
Lake Paradise (Emmet Co.)	Largemouth Bass	Mercury						V												
	Smallmouth Bass	Mercury																		
Long Lake* (Kalamazoo Co.)	Black Crappie	Mercury											A							
Long Lake* (St. Joseph Co.)	Largemouth Bass	Mercury																		
Manistee Lake* (Manistee Co.)	Black Crappie	Mercury, PCBs											'							
, , ,	Bluegill	PCBs											'							
	Largemouth and Smallmouth Bass	Mercury, PCBs					•	•	•	•						•	•	•		
	Walleye	Mercury, PCBs								•	•						•			
Manistique Lake* (Mackinac Co.)	Walleye	Mercury					•	▼	•	•	▼					▼	•	•		•
Manistique River (Upstream from dam at Manistique)	Northern Pike	Mercury							•	•	▼							•		•
Manistique River (Downstream	Carp	PCBs	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
Manistique Papers Dam)	Channel Catfish	PCBs																		
	Rock Bass	Mercury, PCBs										_	✓	_		•	•			_
	Smallmouth Bass	PCBs										丅	\top							
	Suckers	PCBs																		
	Walleye	Mercury, PCBs																		

Unlimited consumption. One meal per week. **General Population** Women & Children One meal per month. Six meals per year. Length (inches) Length (inches) Do not eat these fish. 10-12 18-22 22-26 26-30 26-30 30 + 10-12 22-26 **6**-8 8-9 30 **Water body Species** Contaminant(s) Lake Michigan Watershed All other locations refer to general advice on page 5. **Menominee River** Mercury, PCBs Carp (Downstream Quinnesec, Dickinson Co.) Sturgeon Mercury, PCBs Suckers Mercury, PCBs Walleye Mercury, PCBs **Michigamme River** Burbot Mercury System* (Including Lake Michigamme, Northern Pike Mercury Michigamme Reservoir, Peavy Pond, and Paint River Pond) Suckers Mercury Walleve Mercury Mona Lake* (Muskegon Co.) **PCBs** Carp Smallmouth Bass **PCBs** Walleve **PCBs** Morrison Lake* (Ionia Co.) Carp **PCBs** Largemouth Bass Muskegon Lake* Carp PCBs, Chlordane (Muskegon Co.) Largemouth Bass Mercury, PCBs Northern Pike **PCBs** Smallmouth Bass Mercury, PCBs Mercury, PCBs Walleye **Muskegon River** PCBs. Chlordane Carp (Downstream Croton Dam) Suckers Mercury, PCBs **PCBs** Walleye North Lake Leelanau* Lake Trout Mercury, PCBs (Leelanau Co.) Suckers **PCBs**

One meal per month.		aı per week. Is per year.			3en	eral	Pol	pula	tion	1				Wor	nen	& (Child	drer		
One mear per monan.		eat these fish.			Le	ngtl	h (in	iche	es)					Le	ngt	h (iı	nche	es)		
Water body	Species	Contaminant(s)	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Lake Michigan Watersl	hed All other locations re	efer to general advice on page	e 5.																	
North Manistique Lake*	Walleye	Mercury									▼									
(Luce Co.)	Yellow Perch																			
Net River (Iron Co.)	Northern Pike	Mercury									V									
	Walleye	Mercury									lacktriangle									
Paint Lake* (Iron Co.)	Northern Pike	Mercury									V									
Palmer Lake (St. Joseph Co.)	Largemouth Bass	Mercury																		
Pere Marquette Lake*	Northern Pike	PCBs									V									
(Mason Co.)	Suckers	PCBs																		
Pere Marquette River	Brown Trout	Mercury, PCBs									lacktriangleright									
(Including Baldwin and all otherTributaries)	Suckers	PCBs																		
Pigeon River	Smallmouth Bass	Mercury, PCBs																		
(St. Joseph Co.)	Suckers	PCBs										•								V
Platte Lake* (Benzie Co.)	Channel Catfish	PCBs																		
	Largemouth and Smallmouth Bass	Mercury, PCBs					•	•	•	•						•	•	•	•	
	Northern Pike	Mercury, PCBs									\blacksquare								•	
	Rock Bass	Mercury				lacksquare	lacksquare				寸	▼								
Portage Creek (Monarch Pond)	Carp	PCBs									lack	▼	•	•	lacksquare	V	V	•		V
Portage Creek (Downstream	Carp	PCBs									lack									
Monarch Mill Pond, Kalamazoo Co.)	Channel Catfish	PCBs				•	•	•	•	•	•				♦	•	♦	•	•	♦
	Largemouth Bass	PCBs					•	•	♦	•						♦	♦	•	♦	
	Smallmouth Bass	PCBs					•	♦	•	•						•	♦	•	•	
	All other species	PCBs	•								lacktriangle	♦	•	♦	•	♦	♦	♦	•	♦
Portage Lake* (Manistee Co.)	Carp	PCBs																		
	Largemouth Bass	Mercury, PCBs						V								•				
	Smallmouth Bass	Mercury, PCBs																		
	Northern Pike	PCBs									lack									

Unlimited consumption.		meal per week.			Gen	era	l Po	pula	atior	1				Wo	mer	1 &	Chil	drer	h	
One meal per month.		meals per year.			Le	ngt	h (iı	nch	es)					L	eng	th (i	nch	es)		
		not eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	+
Water body	Species	Contaminant(s)	ý	ά	9	12	4	18	22	26	30	Ġ	φ̈́	10	12	4	18	22	26	30
Lake Michigan Watersh	1ed All other location	ons refer to general advice on pag	e 5.																	
Rabbit River (Upstream Hamilton Dam)	Carp	PCBs																		
(Opsilean Hamilton Dam)	Suckers	Mercury									V									
Rabbit River	Carp	PCBs	•						•	•										
(Downstream Hamilton Dam)	Largemouth Bass	Mercury, PCBs										Ш								
	Northern Pike	Mercury																		
Randall Lake Chain* (Branch Co.)	Northern Pike	Mercury, PCBs							▼	•	▼							•		•
Red Cedar River	Carp	PCBs											' \		•	•				
Reed's Lake* (Kent Co.)	Largemouth Bass	PCBs										П				•	▼	▼		\Box
	Northern Pike	PCBs										П						V		
	Walleye	PCBs																		
Ruddiman Creek Lagoon	Carp	PCBs								•	♦								•	♦
(Muskegon Co.)	Largemouth Bass	PCBs																		
Round Lake* (Marquette Co.)	Northern Pike	Mercury							♦	♦	♦							♦	•	♦
Selkirk Lake* (Allegan Co.)	Yellow Bullhead	Mercury																		
St. Joseph River	Carp	PCBs	V									•	•	•	•	♦	♦	♦	•	♦
(Downstream Berrien Springs)	Smallmouth Bass	PCBs																		
	Walleye	PCBs																		
St. Joseph River (Including	Carp	PCBs																		
Chapin Lake*, upstream Berrien	Largemouth Bass	Mercury, PCBs																		
Springs, Berrien Co.)	Smallmouth Bass	PCBs															•	•	•	
St. Joseph River	Carp	PCBs								V									•	♦
(Upstream Constantine)	Channel Catfish	PCBs										П			•					
	Walleye	PCBs	Ī									П								

^{*} For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption	. V One mea	al per week.			Gen	eral	l Po	pula	atior	1				Wo	men	&	Chil	dren		
One meal per month.		ls per year.			Le	engt	h (ir	nche	es)					L	engt	h (i	nch	es)		
		at these fish.	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Water body	Species	Contaminant(s)		∞	7	7	7	7	12	ñ	က		ι κ	1 5	12	4	1 2 2		26	ñ
Lake Michigan Waters	hed All other locations re	fer to general advice on pa	ge 5.																	
St. Joseph River (Upstream Sturgis Impoundment)	Carp	PCBs								V	V								•	•
(Opstream stargs impoundment)	Largemouth Bass	Mercury						V	V	V	V			V	V	V				
Stanley Lake (Iron Co.)	Walleye	Mercury										Ш								
Thornapple River	Carp	PCBs											4 V							
Torch Lake*	Brown Trout	PCBs										Π								
(Antrim Co.)	Lake Trout	Mercury, PCBs, Chlordane							•	*	•			•	•	•	•	•	•	•
	Lake Whitefish	PCBs, Dioxin										7	1 \(\neq \)				•	•	•	♦
	Smallmouth Bass	Mercury, PCBs					•		▼	▼		П								\Box
	Yellow Perch	Mercury				•	•													
Union Lake* (St. Joseph R., Branch Co.)	Carp, Channel Catfish	PCBs	A	V	′ ▼	•	▼	▼	•	▼	▼	▼								
Unnamed Lake* aka	Northern Pike	Mercury							♦	♦	♦	Т						♦	♦	♦
Aligan Lake	Walleye	Mercury	\top				T	T	•	♦	♦	П						•	♦	♦
(Baraga Co., T49N, R31W, S35)	Yellow Perch	Mercury		▼	•	•	•							•	•	•				
Walloon Lake* (Charlevoix Co.)	Rock Bass																			
	Yellow Perch																			
West Branch Lakes,	Northern Pike	Mercury	\top						•	•	*	厂						♦	*	•
SE and SW* (Alger Co., T48N, R14W, S31)	Walleye	Mercury	1				▼	▼	•	•		\sqcap						•	•	
	Yellow Perch	Mercury		▼	•	•	•							•	•	•				
Van Auken Lake*	Northern Pike	Mercury	\top							▼	▼	\top						▼	•	
White Lake (Muskegon Co.)	Carp	PCBs	•	*	•	♦	♦	•	♦	♦	♦	1	•	*	•	♦	•	♦	♦	•
	Smallmouth Bass	Mercury, PCBs	1		\vdash				▼	▼		\sqcap								
	Walleye	Mercury, PCBs	\top							▼	V	\sqcap		1		V	T			

^{*} For species not listed, see general inland lake mercury advisory on page 5.

Unlimited consumption	n. V One m	eal per week.			Gen	eral	Po	pula	tior	1				Wo	men	& (Chil	dren	1	
One meal per month.		als per year.			Le	ngt	h (ir	nche	es)					Le	engt	h (i	nch	es)		
		eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Water body	Species	Contaminant(s)	9	κό	9	12	4	18	52	26	36	Ó	φ.	10	12	4	18	22	26	36
Lake Michigan Waters	hed All other locations	refer to general advice on pag	je 5.																	
*All inland lakes,	Crappie	Mercury				_	_	_												
reservoirs, and impoundments (mercury adviosry)	Largemouth and Smallmouth Bass	Mercury		Ť	_ •	·	•	•	•	•						•	•	•	•	П
	Muskellunge	Mercury									lacksquare									
	Northern Pike	Mercury							•	▼	lacksquare	T								
	Rock Bass	Mercury		▼	▼	▼	▼													
	Walleye	Mercury					•	•	•	V	lacksquare	T								
	Yellow Perch	Mercury																		

Unlimited consumption		e meal per week.			Gen	iera	l Po	pula	atio	n				Wo	men	& (Chil	drei	•	
One meal per month.		meals per year.			Le	engt	h (iı	nche	es)					Le	engt	h (i	nch	es)		
Water hade		not eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +
Water body	Species .	Contaminant(s)		_ w	7	7	4	4	7	8	(6)	Ľ	@	7	÷	+	7	12	Ñ	n
	1ed All other locati	ons refer to general advice on page	5.	-						Ι.		-	-							
Lake Superior #	Brown Trout	PCBs	╙									┸		V	V	•	V	V		
	Chinook Salmon	PCBs	╙									┸								
	Coho Salmon	PCBs	┖									┸		V	V	V	V	V		
	Lake Herring	PCBs									V	▼		•	•	•	V	V		
	Lake Trout	PCBs, Chlordane, Mercury																		•
	Siscowet	Chlordane, PCBs, Dioxin						•	•	•	•			•	•	•	•	•	•	•
	Suckers	PCBs										▼		▼	▼	•	•			T
	Whitefish	PCBs																•		T
Au Train Lake* (Alger Co.)	Northern Pike	Mercury										Т								
Boston Pond* (Houghton Co.)	Yellow Perch										П									
Carp River (Downstream	Brook Trout																			
of Deer Lake, Marquette Co.)	Northern Pike	Mercury								▼		Т								
	Suckers																			
	All other species	Mercury	•	•	•	•	•	•	•	•	•	•	•	•	•	•	♦	•	•	•
Carp Creek (Upstream of	Brook Trout	Mercury					▼	▼	T	▼	П									
Deer Lake, Marquette Co.)	Suckers	Mercury			•	•	•	•	•	•	•			♦	♦	♦	♦	•	•	•
	All other species	Mercury	•	•	♦	•	•	•	•	♦	•	♦	•	♦						
Chaney Lake* (Gogebic Co.)	Northern Pike	Mercury							T	♦	♦	Т							•	♦
	Yellow Perch	Mercury																		
Cisco Lake Chain* (Gogebic Co.)	Walleye									A						A				
Deer Lake (Alger Co.)	Northern Pike	Mercury								•	♦								•	♦
Deer Lake (Marquette Co.)	All species	Mercury	•	•	♦	•	•	•	•	•	•	•	*	•	•	♦	♦	•	•	♦
Duck Lake* (Gogebic Co.)	Walleye	Mercury						•	V	•		\top								

^{*} For species not listed, see general inland lake mercury advisory on page 5. # Also applies to tributaries into which migratory species enter.

Unlimited consumption	n. V One r	neal per week.			Gen	era	l Po	pula	atio	1				Wo	men	& (Chil	drei	•	
One meal per month.		eals per year.			Le	engt	h (iı	nch	es)					Le	engt	h (i	nch	es)		
Water barba		ot eat these fish.	8-9	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	4 05
Water body	Species	Contaminant(s)			7	+	7	4	10	Ñ	(7)		®	7	7	7	7	%	N	Ľ
Lake Superior Waters	hed All other locations	refer to general advice on page	5.																	
Lake Gogebic (Gogebic Co.)	Walleye	Mercury																		
Lake Independence* (Marquette Co.)	Northern Pike	Mercury									▼									
Lake Le Vasseur* (Marquette Co.)	Northern Pike	Mercury							▼	•	•							•	•	Ţ
Langford Lake* (Gogebic Co.)	Walleye	Mercury							•	•	•							•	•	Ţ
Pomeroy Lake* (Gogebic Co.)	Walleye	Mercury									lacksquare									Ţ
Portage Lake* (Houghton Co.)	Brown Trout	PCBs														•	V			1
	Walleye	Mercury, PCBs								•										T
Siskiwit Lake* (Isle Royale)	Lake Trout	PCBs																▼	▼	Ī
	Lake Whitefish	PCBs													▼	•	•			T
Teal Lake*	Smallmouth Bass	Mercury						lacksquare	V	V						•				T
	Walleye	Mercury						•	▼	•	V					•				T
Thousand Island Lake* (Gogebic Co.)	Walleye	Mercury					A	•	•	•	•					A	•	•	•	[
Torch Lake* (Houghton Co.)	Northern Pike	Mercury, PCBs																		T
	Smallmouth Bass	Mercury, PCBs	1					▼	▼	▼			T			▼	•	•	•	t
	Walleye	Mercury, PCBs	1						▼	▼	▼					▼	▼		•	T

^{*} For species not listed, see general inland lake mercury advisory on page 5. # Also applies to tributaries into which migratory species enter.

Unlimited consumption	. V One	meal per week.			Gen	eral	Pol	pula	tion					Wo	mei	n &	Chil	drer	1	
One meal per month.		neals per year.			Le	ngt	h (in	iche	es)					L	eng	th (i	nch	es)		
		ot eat these fish.	8-8	8-10	10-12	12-14	14-18	18-22	22-26	26-30	30 +		2 6	10-12	12-14	14-18	18-22	22-26	26-30	T
Water body	Species	Contaminant(s)	9	φ	9	12	4	18	22	26	36	L	هٔ ف	· 수	12	4	8	22	26	5
Lake Superior Watersh	ed All other location	s refer to general advice on page	e 5.																	
*All inland lakes,	Crappie	Mercury										1								Γ
reservoirs, and impoundments (mercury advisory)	Largemouth and Smallmouth Bass	Mercury					•	▼	▼	•						•	•	•	•	
(Muskellunge	Mercury																		
	Northern Pike	Mercury																		
	Rock Bass	Mercury										1			•					
	Walleye	Mercury						▼												
	Yellow Perch	Mercury																		Г

- # Also applies to tributaries into which migratory species enter.
- * For species not listed, see general inland lake mercury advisory on page 5.
- A. When multiple contaminants are listed, each chemical was analyzed separately for the appropriate advisory and the most protective advisory selected.

Updated April 2007. Advisory updates may be issued at any time upon receipt of significant new findings or changes in advisory criteria. For further information or the most up-to-date advice contact the Michigan Department of Community Health Division of Environmental Health at 1-800-648-6942.

^{*} For species not listed, see general inland lake mercury advisory on page 7. # Also applies to tributaries into which migratory species enter.



Michigan Department of Community Health



Jennifer M. Granholm, Governor Janet Olszewski, Director

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